



NAAC ACCREDITED

AN ISO 9001-2015 & ISO 14001-2015 CERTIFIED INSTITUTE

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DEPARTMENT OF ELECTRICAL ENGINEERING

STRATEGIC PLAN

A **Strategic Plan** for the Electrical Engineering Department is essential to align academic, research, and community engagement goals while ensuring the department remains relevant and competitive. The strategic plan provides a roadmap for long-term growth, guiding the department's activities and resource allocation.

Strategic Initiatives

A. Curriculum Enhancement

- **Short-term (1-2 years):**
 - Update curriculum in line with modern electrical engineering technologies like AI, Machine Learning, Internet of Things, and Industry 4.0.
 - Introduce hands-on learning experiences (lab work, industrial training).
 - Integrate project-based learning to encourage problem-solving.
- **Medium-term (3-5 years):**
 - Introduce specialized tracks like Power Systems, Embedded Systems, and Communication Systems.
 - Offer multidisciplinary courses that integrate electrical engineering with other fields (e.g., data science, robotics, sustainable energy).
- **Long-term (5-10 years):**
 - Establish strong industry-academia collaborations to design courses based on real-time industry needs.
 - Develop short-term certification programs and online courses to cater to professionals.

B. Research and Development Focus

- **Short-term (1-2 years):**
 - Strengthen existing research groups and set clear goals for faculty and student research output.
 - Identify strategic areas of growth (e.g., renewable energy, robotics, smart grids) and align resources towards those.
 - Host internal research symposiums and workshops to encourage collaboration.
- **Medium-term (3-5 years):**
 - Create partnerships with industry for research and development projects.
 - Increase research funding through grants and sponsorships.
 - Begin the process of establishing a dedicated research center for specific fields.
- **Long-term (5-10 years):**
 - Establish international collaborations with leading institutions for joint research.
 - Focus on technology transfer by developing patents and commercializing innovations.



Amar Sewa Mandal's

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- Launch an entrepreneurship cell to encourage start-ups and innovation from within the department.
- Form collaborations for joint industry projects and open innovation challenges.

Timeline and Review

- **Year 1-2:** Focus on curriculum updates, faculty development, and industry collaboration.
- **Year 3-5:** Establish research centers, enhance infrastructure, and foster industry-academia relations.
- **Year 5-10:** Aim for global recognition in research, launch innovative solutions, and increase international collaborations.

Regular **annual reviews** should be conducted to assess progress and adjust strategies as necessary. Involve faculty, students, alumni, and industry partners in the review process to get comprehensive feedback.

HEAD OF DEPARTMENT
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